

AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A flame retardant coating composition, comprising 10-50 wt% of a water-soluble resin, an acryl based resin or a urethane based resin, 10-30 wt% of a phosphorus-based flame retarding agent, 8-20 wt% of a flame retarding aid selected from antimony trioxide, antimony pentoxide, zinc borate, boric acid, paraffin wax or mixtures thereof, 30-45 wt% of a diluting agent, and 0.1-0.5 wt% of an additive, based on the whole wt% of the coating composition.

2. (Currently Amended) The coating composition as defined in claim 1, wherein the water-soluble resin comprises at least one synthetic resin selected from the group consisting of alkyd resin, acrylic resin, urethane resin, epoxyester resin, acryl based resin, urethane based resin or mixtures thereof.

3. (Currently Amended) The coating composition as defined in claim ~~2~~¹, wherein the acryl based resin comprises polyalkylmethacrylate, alkylmethacrylate-alkylacrylate copolymer or mixtures thereof.

4. (Canceled)

5. (Canceled)

6. (Original) The coating composition as defined in claim 1, wherein the diluting agent comprises methylethylketone, toluene, isopropanol, ethylalcohol, methylalcohol or mixtures thereof.
7. (Previously Presented) A method of preparing a flame retardant product comprising the following steps of coating the flame retardant coating composition of claim 1 on a substrate; and thermally treating the coated substrate at a temperature ranging from 80 to 150°C through heating and drying.
8. (Previously Presented) A substrate coated with the flame retardant coating composition of claim 1.
9. (New) The method according to claim 7, wherein the water-soluble resin comprises at least one synthetic resin selected from the group consisting of alkyd resin, acrylic resin, urethane resin, epoxyester resin, acryl based resin, urethane based resin or mixtures thereof, and further wherein the acryl based resin comprises polyalkylmethacrylate, alkylmethacrylate-alkylacrylate copolymer or mixtures thereof.
10. (New) The method according to claim 7, wherein the diluting agent comprises methylethylketone, toluene, isopropanol, ethylalcohol, methylalcohol or mixtures thereof.
11. (New) The substrate according to claim 8, wherein the water-soluble resin comprises at least one synthetic resin selected from the group consisting of alkyd resin,

acrylic resin, urethane resin, epoxyester resin, acryl based resin, urethane based resin or mixtures thereof, and further wherein the acryl based resin comprises polyalkylmethacrylate, alkylmethacrylate-alkylacrylate copolymer or mixtures thereof.

12. (New) The substrate according to claim 8, wherein the diluting agent comprises methylethylketone, toluene, isopropanol, ethylalcohol, methylalcohol or mixtures thereof.